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Nov 1, 1985

DERWENT-ACC-NO: 1985-313657

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TITLE: Pretreatment for annealing cold-rolled stainless steel strip - involves applying sodium or calcium hydroxide aq. soln. after decreasing

PATENT-ASSIGNEE:

ASSIGNEE	CODE
KAWASAKI STEEL CORP	KAWI

PRIORITY-DATA: 1984JP-0074406 (April 13, 1984)

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PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input checked="" type="checkbox"/> JP 60218429 A	November 1, 1985		005	
<input type="checkbox"/> JP 92047011 B	July 31, 1992		005	C21D009/52

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 92047011B	April 13, 1984	1984JP-0074406	
JP 92047011B		JP 60218429	Based on

INT-CL (IPC): C21D 1/70; C21D 1/72; C21D 9/52; C23F 11/00

ABSTRACTED-PUB-NO: JP 60218429A

BASIC-ABSTRACT:

After cold-rolling, the surface of steel strip is degreased and NaOH or Ca(OH)2 aq. soln. adjusted to pH 9-13 is successively applied to the surface before continuous annealing and descaling.

USE/ADVANTAGE - Esp. for the treatment of ferrite stainless steel. By applying NaOH or Ca(OH)2 aq. soln., scaling of the strip is suppressed during annealing. Efficiency of descaling is improved, productivity is greatly enhanced and descaling costs decreased.

In an example, a test piece taken from cold-rolled ferrite stainless steel strip (SUS 430) 1 mm thick was degreased with alkali degreasing agent contg. ortho-sodium silicate and dipped into Ca(OH)2 aq. soln. adjusted to pH 12. The test piece was then annealed in an atmos. consisting of 5 vol.% O2, 9 vol.% CO2 and the balance N2 at 850 deg.C for 3 min. The oxidn. increase was 70 mg/sq.m.